L. Helms

PAGE: 1

RAW SEQUENCE LISTING PATENT APPLICATION US/09/293,533

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This Raw Listing contains the General Information Section and up to the first 5 pages.

#9

1		SEQUENCE LISTING
2 3	(1) G	eneral Information: ENTERED
4	, - ,	
5	(i)	APPLICANT: Chatterjee, Malaya
6		Foon, Kenneth A.
7		Chatterjee, Sunil K.
8		•
9	(ii)	TITLE OF INVENTION: MONOCLONAL ANTIBODY 1A7 AND USE FOR THE
10		TREATMENT OF MELANOMA AND SMALL CELL CARCINOMA
11		
12	(iii)	NUMBER OF SEQUENCES: 66
13	, ,	-
14	(iv)	CORRESPONDENCE ADDRESS:
15	. ,	(A) ADDRESSEE: MORRISON & FOERSTER
16		(B) STREET: 755 PAGE MILL ROAD
17		(C) CITY: PALO ALTO
18		(D) STATE: CA
19		(E) COUNTRY: USA
20		(F) ZIP: 94304-1018
21		(-,
22	· (V)	COMPUTER READABLE FORM:
23	` ,	(A) MEDIUM TYPE: Floppy disk
24		(B) COMPUTER: IBM PC compatible
25		(C) OPERATING SYSTEM: PC-DOS/MS-DOS
26		(D) SOFTWARE: PatentIn Release #1.0, Version #1.30
27		
28	(vi)	CURRENT APPLICATION DATA:
29	` '	(A) APPLICATION NUMBER: 09/293,533
30		(B) FILING DATE:
31		(C) CLASSIFICATION:
32		
33	(Vii)	PRIOR APPLICATION DATA:
34	, ,	(A) APPLICATION NUMBER: US/08/752,844
35		(B) FILING DATE:
36		
37	(viii)	ATTORNEY/AGENT INFORMATION:
38	` '	(A) NAME: Schiff, J. Michael
39		(B) REGISTRATION NUMBER: 40,253
40		(C) REFERENCE/DOCKET NUMBER: 30414-20002.21
41		
42	(ix)	TELECOMMUNICATION INFORMATION:
43	` - /	(A) TELEPHONE: (415) 813-5600
44		(B) TELEFAX: (415) 494-0792
45		(C) TELEX: 706141
46		,

RAW SEQUENCE LISTING PATENT APPLICATION US/09/293,533

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47 48	(2)	INFO	ORMA!	rion	FOR	SEQ	ID 1	NO:1	:								
49 50		(i) SEQUENCE CHARACTERISTICS:															
51		(A) LENGTH: 447 base pairs															
52		(B) TYPE: nucleic acid															
53 54		(C) STRANDEDNESS: single (D) TOPOLOGY: linear															
5 4 55			(1	<i>)</i> 10)POL(JGI:	T T 111	Ear									
56		(ii)	MOI	LECUI	LE TY	PE:	DNA	(ge	nomi	c)							
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59 60		(ix)		ATURI		ZE137 .	ana										
60 61			•	•	AME/I			147									
62		(B) LOCATION: 1447															
63		(ix) FEATURE:															
64		(A) NAME/KEY: mat_peptide															
65		(B) LOCATION: 58															
66 67																	
68		(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:															
69		` '		-					~								
70												TTC					48
71		Lys	Leu	Pro		Arg	Leu	Leu	Val		Met	Phe	Trp	Ile		Ala	
72 73	-19				-15					-10	-				-5		
73 74	TCC	AGC	САТ	САТ	СТТ	ጥጥሮ	ΔТС	ACC	CAA	АСТ	CCA	CTC	TCC	СТС	ССТ	GTC	96
75												Leu					
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78 70												TCT					144
79 80	Ser	15	сту	Asp	GIN	АТа	Ser 20	iте	ser	cys	arg	Ser 25	ser	GIN	ser	тте	
81		10					20					23					
82	GTA	CAT	AGT	AAT	GGA	AAC	ACC	TAT	TTA	GAA	TGG	TAC	CTA	CAG	AAA	CCA	192
83		His	Ser	Asn	Gly			Tyr	Leu	Glu	Trp	Tyr	Leu	Gln	Lys		
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85 86	aac	CAG	ጥርጥ	ממא	አልሮ	מיזים	ርሞር	አሞሮ	ሞልሮ	արարար	Gum	TCC	አልሮ	CGA	արա	ጥርጥ	240
87												Ser					240
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89										-							•
90												GGG					288
91 92	GTÀ	vaı	Pro	_	Arg	Phe	Ser	GTA		СТÀ	Ser	Gly	Thr	Asp 75	Pne	Thr	
93				65					70					/3			
94	CTC	AAG	ATC	AGC	AGA	GTG	GAG	GCT	GAG	GAT	CTG	GGA	GTT	TAT	TAC	TGC	336
95												Gly					
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98 99												GGA Gly					384
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152 (2) INFORMATION FOR SEQ ID NO:3:

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101	GAA	АТС	ΔΔΔ	CGG	сст	СΔТ	ССТ	GCA	CCA	ΔСТ	GTA	TCC	АТС	ጥጥር	CCA	CCA		432
103											Val							102
104	110		-1-	5		115					120					125		
105																		
106	TCC	AGT	AAG	CTT	GGG													447
107	Ser	Ser	Lys	Leu	Gly													
108			-		130													
109																		
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111	(2)	INF	ORMA!	rion	FOR	SEQ	ID I	NO:2	:									
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113	-	1	(i) S	SEQUI	ENCE	CHAI	RACTI	ERIS	rics	:								
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128	Ser	Leu	Glv	Asp	Gln	Δla	Ser	Tle	Ser	Cvs	Arg	Ser	Ser	Gln	Ser	Tle		
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131	Val	His	Ser	Asn	Gly	Asn	Thr	Tvr	Leu	Glu	Trp	Tvr	Leu	Gln	Lys	Pro		
132	30				-	35		•			40	1			-	45		
133																		
134	Gly	Gln	Ser	Pro	Asn	Leu	Leu	Ile	Tyr	Phe	Val	Ser	Asn	Arg	Phe	Ser		
135					50					55					60			
136																		
137	Gly	Val	Pro	Asp	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr		
138				65					70					75				
139																		
140	Leu	Lys		Ser	Arg	Val	Glu	Ala	Glu	Asp	Leu	Gly	Val	Tyr	Tyr	Cys		
141			80					85					90					
142	_	_	_			_					_	_	_					
143	Phe		Gly	Ser	His	Val		Trp	Thr	Phe	Gly		Gly	Thr	Lys	Leu		
144		95					100					105						
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160		(11)) MOI	LECUI	LE T	YPE:	DNA	(ge	nomi	c) _.							
161																	
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163		(1X)		ATURI													
164		(A) NAME/KEY: CDS															
165		(B) LOCATION: 1456															
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167		(ix)		ATURI													
168						KEY:	-	_pep	tide								
169			(1	B) L(OCAT:	ION:	58										
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171				•													
172		(xi)) SE	QUEN	CE DI	ESCR:	IPTI	: : NC	SEQ :	ID No	0:3:						
173								*									
174		GCT															48
175	Met	Ala	Val	Leu	Gly	Leu	Leu	Phe	Cys	Leu	Val	Thr	Phe	Pro	Ser	Cys	
176	-19				-15					-10					-5		
177																	
178		CTG															96
179	Val	Leu.	Ser	Gln	Val	Gln	Val	Lys	Glu	Ser	Gly	Pro	Phe	Leu	Val	Pro	
180				1				5					10				
181											•						
182	CCC	TCA	CAG	AGC	CTG	TCC	ATC	ACA	TGC	ACT	GTC	TCA	GGG	TTC	TCA	TTA	144
183	Pro	Ser	Gln	Ser	Leu	Ser	Ile	Thr	Cys	Thr	Val	Ser	Gly	Phe	Ser	Leu	
184		15	•				20					25					
185																	
186	ACC	ACC	TAT	GGT	GTA	AGC	TGG	ATT	CGC	CAG	CCT	CCA	GGA	AAG	GGT	CTG	192
187	Thr	Thr	Tyr	Gly	Val	Ser	Trp	Ile	Arg	Glņ	Pro	Pro	Gly	Lys	Gly	Leu	
188	30		_	_		35	_		_		40			-		45	
189			•														
190	GAG	TGG	CTG	GGA	GCA	ATT	TGG	GGT	GAC	GGG	ACC	ACA	AAT	TAT	CAT	TCA	240
191	Glu	Trp	Leu	Gly	Ala	Ile	Trp	Gly	Asp	Gly	Thr	Thr	Asn	Tyr	His	Ser	
192		_		-	50		_	_		55				_	60		
193											•						
194	GCT	CTC	ATA	TCC	AGA	CTG	AGC	ATC	AGC	AAG	GAT	AAC	TCC	AAG	AGC	CAA	288
195		Leu															
196				65					70		•			75			
197																	
198	GTT	TTC	TTA	AAA	CTG	AAC	AGT	CTG	CAA	ACT	GAT	GAC	ACG	GCC	ACG	TAC	336
199		Phe															
200			80	4				85			- F.	- 4	90			-	
201													-				
202	TAC	TGT	GCC	AAA	CTG	GGT	AAC	TAC	GAT	GCT	CTG	GAC	TAC	TGG	GGT	CAA	384
203		Cys															_
204	<i>1</i> -	95				-1	100		- 12			105		- E	- 1		
205												-					

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(i) SEQUENCE CHARACTERISTICS:

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GGA ACC TCA GTC ACC GTC TCC TCA GCC AAA ACG ACA CCC CCA CCC GTC 432															11	NPUT	SET:	S36024.raw
Column	206	GGA	ACC	TCA	GTC	ACC	GTC	TCC	TCA	GCC	AAA	ACG	ACA	CCC				
208																		
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110 TAT CCA TTG GTC CCT GGA AGC TTG GG 111 Tyr Pro Leu Val Pro Gly Ser Leu 112		_																
Tyr Pro Leu Val Pro Gly Ser Leu 130		TAT	CCA	TTG	GTC	ССТ	GGA	AGC	TTG	GG								458
212 213 214 215 216 217 218 218 219 219 219 219 210 219 210 219 210 210 210 210 210 211 221 221 231 242 252 261 272 272 273 282 284 287 287 287 287 298 299 209 201 201 201 201 201 202 202 202 203 203 204 205 205 206 207 207 208 208 209 208 209 209 209 201 201 201 202 201 202 202 203 203 204 205 205 206 207 207 208 208 209 208 209 209 201 201 201 202 202 203 203 204 205 205 206 207 207 208 208 209 208 209 209 200 200 200 200 200 200 200 200										-								430
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220 (D) TOPOLOGY: linear 221 (ii) MOLECULE TYPE: protein 222 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4: 225											acia	5						
221 222						-												
(ii) MOLECULE TYPE: protein (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4: (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5: (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4: (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5: (xi) SEQ ID NO:5					(υ) 101	POTO	. : Y i	line	ar								,
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227			_			_						_						
228			Ala	Val	Leu		Leu	Leu	Phe	Cys	Leu	Val	Thr	Phe	Pro	Ser	Cys	
229		-19				-15					-10					-5		
230 231 232 232 233 234 235 234 235 236 237 237 238 239 240 240 241 241 241 241 242 253 244 244 241 241 242 254 243 244 244 241 254 254 255 266 261 270 275 275 276 277 278 278 279 279 270 270 270 270 270 270 270 270 270 270																		
231 232 Pro Ser Gln Ser Leu Ser Ile Thr Cys Thr Val Ser Gly Phe Ser Leu 233 15 20 25 234 235 Thr Thr Tyr Gly Val Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu 236 30 35 40 237 238 Glu Trp Leu Gly Ala Ile Trp Gly Asp Gly Thr Thr Asn Tyr His Ser 239 50 55 60 240 241 Ala Leu Ile Ser Arg Leu Ser Ile Ser Lys Asp Asn Ser Lys Ser Gln 242 65 70 75 243 244 Val Phe Leu Lys Leu Asn Ser Leu Gln Thr Asp Asp Thr Ala Thr Tyr 245 80 85 90 240 241 Tyr Cys Ala Lys Leu Gly Asn Tyr Asp Ala Leu Asp Tyr Trp Gly Gln 242 243 244 Val Phe Ser Val Thr Val Ser Ser Ala Lys Thr Thr Pro Pro Pro Val 245 247 Tyr Cys Ala Lys Leu Gly Ser Leu 250 Gly Thr Ser Val Thr Val Ser Ser Ala Lys Thr Thr Pro Pro Pro Val 251 110 115 120 125 252 253 Tyr Pro Leu Val Pro Gly Ser Leu 254 130 255 256 (2) INFORMATION FOR SEQ ID NO:5:		Val	Leu	Ser	Gln	Val	Gln	Val	Lys	Glu	Ser	Gly	Pro	Phe	Leu	Val	Pro	
Pro Ser Gln Ser Leu Ser Leu Ser Leu Cys Thr Val Ser Gly Phe Ser Leu	230			•	1				5				-	10				
233	231																	
234 235 Thr Thr Tyr Gly Val Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu 236 30	232	Pro	Ser	Gln	Ser	Leu	Ser	Ile	Thr	Cys	Thr	Val	Ser	Gly	Phe	Ser	Leu	
235 Thr Thr Tyr Gly Val Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu 236 30	233		15					20					25					
236	234																	
237 238 Glu Trp Leu Gly Ala Ile Trp Gly Asp Gly Thr Thr Asn Tyr His Ser 239 240 241 Ala Leu Ile Ser Arg Leu Ser Ile Ser Lys Asp Asn Ser Lys Ser Gln 242 243	235	Thr	Thr	Tyr	Gly	Val	Ser	Trp	Ile	Arg	Gln	Pro	Pro	Gly	Lys	Gly	Leu	
238 Glu Trp Leu Gly Ala Ile Trp Gly Asp Gly Thr Thr Asn Tyr His Ser 239 240 241 Ala Leu Ile Ser Arg Leu Ser Ile Ser Lys Asp Asn Ser Lys Ser Gln 242 243 244 Val Phe Leu Lys Leu Asn Ser Leu Gln Thr Asp Asp Thr Ala Thr Tyr 245 246 247 Tyr Cys Ala Lys Leu Gly Asn Tyr Asp Ala Leu Asp Tyr Trp Gly Gln 248 250 Gly Thr Ser Val Thr Val Ser Ser Ala Lys Thr Thr Pro Pro Pro Val 251 252 253 Tyr Pro Leu Val Pro Gly Ser Leu 254 255 256 (2) INFORMATION FOR SEQ ID NO:5:	236	30					35					40					45	
239	237								•									
240 241 Ala Leu Ile Ser Arg Leu Ser Ile Ser Lys Asp Asn Ser Lys Ser Gln 242 65 70 75 243 244 Val Phe Leu Lys Leu Asn Ser Leu Gln Thr Asp Asp Thr Ala Thr Tyr 245 80 85 90 246 247 Tyr Cys Ala Lys Leu Gly Asn Tyr Asp Ala Leu Asp Tyr Trp Gly Gln 248 95 100 105 249 250 Gly Thr Ser Val Thr Val Ser Ser Ala Lys Thr Thr Pro Pro Pro Val 251 110 115 125 252 253 Tyr Pro Leu Val Pro Gly Ser Leu 254 130 255 256 (2) INFORMATION FOR SEQ ID NO:5:	238	Glu	Trp	Leu	Gly	Ala	Ile	Trp	Gly	Asp	Gly	Thr	Thr	Asn	Tyr	His	Ser	•.
241 Ala Leu Ile Ser Arg Leu Ser Ile Ser Lys Asp Asn Ser Lys Ser Gln 242	239					50					55				_	60		
242	240																	
242	241	Ala	Leu	Ile	Ser	Arg	Leu	Ser	Ile	Ser	Lys	Asp	Asn	Ser	Lys	Ser	Gln	
244 Val Phe Leu Lys Leu Asn Ser Leu Gln Thr Asp Asp Thr Ala Thr Tyr 80 245 80 85 85 85 85 90 90 90 90 90 90 90 90 90 90 90 90 90	242					_	•				_	_						
245 80 85 90 246 247 Tyr Cys Ala Lys Leu Gly Asn Tyr Asp Ala Leu Asp Tyr Trp Gly Gln 248 95 100 105 249 250 Gly Thr Ser Val Thr Val Ser Ser Ala Lys Thr Thr Pro Pro Pro Val 115 120 125 252 253 Tyr Pro Leu Val Pro Gly Ser Leu 254 130 255 256 (2) INFORMATION FOR SEQ ID NO:5:	243															•		
246 247 Tyr Cys Ala Lys Leu Gly Asn Tyr Asp Ala Leu Asp Tyr Trp Gly Gln 248	244	Val	Phe	Leu	Lys	Leu	Asn	Ser	Leu	Gln	Thr	Asp	Asp	Thr	Ala	Thr	Tyr	
247 Tyr Cys Ala Lys Leu Gly Asn Tyr Asp Ala Leu Asp Tyr Trp Gly Gln 248 95 100 100 105 249 250 Gly Thr Ser Val Thr Val Ser Ser Ala Lys Thr Thr Pro Pro Pro Val 115 125 252 253 Tyr Pro Leu Val Pro Gly Ser Leu 254 130 255 256 (2) INFORMATION FOR SEQ ID NO:5:	245			80	_				85				-	90			-	
248 95 100 105 249 250 Gly Thr Ser Val Thr Val Ser Ser Ala Lys Thr Thr Pro Pro Pro Val 251 110 115 120 125 252 253 Tyr Pro Leu Val Pro Gly Ser Leu 254 130 255 256 (2) INFORMATION FOR SEQ ID NO:5:	246										•							
248 95 100 105 249 250 Gly Thr Ser Val Thr Val Ser Ser Ala Lys Thr Thr Pro Pro Pro Val 251 110 115 120 125 252 253 Tyr Pro Leu Val Pro Gly Ser Leu 254 130 255 256 (2) INFORMATION FOR SEQ ID NO:5:	247	Tyr	Cys	Ala	Lys	Leu	Gly	Asn	Tyr	Asp	Ala	Leu	Asp	Tvr	Trp	Gly	Gln	
249 250 Gly Thr Ser Val Thr Val Ser Ser Ala Lys Thr Thr Pro Pro Pro Val 251 110 115 120 125 252 253 Tyr Pro Leu Val Pro Gly Ser Leu 254 130 255 256 (2) INFORMATION FOR SEQ ID NO:5:	248	-	_		-		_		-	-			_	-	-	-		
250 Gly Thr Ser Val Thr Val Ser Ser Ala Lys Thr Thr Pro Pro Pro Val 251 110 115 120 125 252 253 Tyr Pro Leu Val Pro Gly Ser Leu 254 130 255 256 (2) INFORMATION FOR SEQ ID NO:5:																		
251 110 115 120 125 252 253 Tyr Pro Leu Val Pro Gly Ser Leu 254 130 255 256 (2) INFORMATION FOR SEQ ID NO:5:		Glv	Thr	Ser	Val	Thr	Val	Ser	Ser	Ala	Lvs	Thr	Thr	Pro	Pro	Pro	Val	
252 253 Tyr Pro Leu Val Pro Gly Ser Leu 254 130 255 256 (2) INFORMATION FOR SEQ ID NO:5:		_									-1-							
253 Tyr Pro Leu Val Pro Gly Ser Leu 254 130 255 256 (2) INFORMATION FOR SEQ ID NO:5:																		
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